

2002 CWA SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS

January 13, 2003

DRAFT

REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Alameda Creek	20430051	Diazinon <i>This listing was made by USEPA.</i>		High	51 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Alamitos Creek	20540041	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	7.1 Miles	
					Mine Tailings			
2	R	Arroyo Corte Madera Del Presidio	20320020	Diazinon <i>This listing was made by USEPA.</i>		High	4 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Arroyo De La Laguna	20430084	Diazinon <i>This listing was made by USEPA.</i>		High	7.4 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Arroyo Del Valle	20430023	Diazinon <i>This listing was made by USEPA.</i>		High	31 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Arroyo Las Positas	20430080	Diazinon		High	14 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Arroyo Mocho	20430080	Diazinon		High	34 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Butano Creek	20240031	Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	3.6 Miles	
					Nonpoint Source			
2	R	Calabazas Creek	20640012	Diazinon <i>This listing was made by USEPA.</i>		High	4.7 Miles	2004
					Urban Runoff/Storm Sewers			

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2	L	Calero Reservoir	20540031	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>	Surface Mining Mine Tailings	Medium	334 Acres	
2	E	Carquinez Strait	20710020	Chlordane <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	5657 Acres	
				DDT <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	5657 Acres	
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>	Nonpoint Source	Low	5657 Acres	
				Dieldrin <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	5657 Acres	
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Atmospheric Deposition	Low	5657 Acres	
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>	Ballast Water	Medium	5657 Acres	
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Atmospheric Deposition	Low	5657 Acres	
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>	Industrial Point Sources Municipal Point Sources Resource Extraction Atmospheric Deposition Natural Sources Nonpoint Source	High	5657 Acres	2003

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs		High	5657 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	5657 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	5657 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
2	B	Central Basin, San Francisco (part of SF Bay, Central)	20440010	Chlordane		Low	40 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Low	40 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Low	40 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Low	40 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	40 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	40 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Furan Compounds		Low	40 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Mercury		High	40 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources				
				Minor Industrial Point Source				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				Mercury (sediment)		Low	40 Acres	
				Urban Runoff/Storm Sewers				
				Point Source				
				PAHs (sediment)		Low	40 Acres	
				Urban Runoff/Storm Sewers				
				Point Source				
				PCBs		High	40 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	40 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	40 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				

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2	R	Corte Madera Creek	20320011	Diazinon <i>This listing was made by USEPA.</i>		High	4.1 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Marin County)	20320020	Diazinon <i>This listing was made by USEPA.</i>		High	2.6 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Coyote Creek (Santa Clara Co.)	20530021	Diazinon <i>This listing was made by USEPA.</i>		High	55 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Gallinas Creek	20620013	Diazinon <i>This listing was made by USEPA.</i>		High	2.1 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Guadalupe Creek	20540050	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	8.1 Miles	
					Mine Tailings			
2	L	Guadalupe Reservoir	20540040	Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	63 Acres	
					Surface Mining Mine Tailings			
2	R	Guadalupe River	20540050	Diazinon <i>This listing was made by USEPA.</i>		High	18 Miles	2004
					Urban Runoff/Storm Sewers			
				Mercury <i>TMDL will be developed as part of the Santa Clara Basin Watershed Management Initiative. Additional monitoring and assessment is needed.</i>		Medium	18 Miles	
					Mine Tailings			
2	E	Islais Creek	20440010	Ammonia		Low	46 Acres	
					Industrial Point Sources Combined Sewer Overflow			

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				Chlordane (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Endosulfan sulfate (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				PAHs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
				PCBs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	46 Acres	
2	R	Lagunitas Creek	20113020	Nutrients		Low	17 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture Urban Runoff/Storm Sewers			
				Pathogens		Low	17 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture Urban Runoff/Storm Sewers			
				Sedimentation/Siltation		Medium	17 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture Urban Runoff/Storm Sewers			
2	L	Lake Herman	20721030	Mercury		Low	108 Acres	
				<i>Additional monitoring and assessment needed. Problem due to historical mining.</i>				
					Surface Mining			

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2	L	Lake Merritt	20420040	Trash		Low	142 Acres	
					Urban Runoff/Storm Sewers			
2	R	Laurel Creek (Solano Co)	20440040	Diazinon <i>This listing was made by USEPA.</i>		High	3 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Ledgewood Creek	20723010	Diazinon <i>This listing was made by USEPA.</i>		High	12 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Los Gatos Creek (R2)	20540011	Diazinon <i>This listing was made by USEPA.</i>		High	19 Miles	2004
					Urban Runoff/Storm Sewers			
2	E	Marina Lagoon (San Mateo County)	20440040	High Coliform Count		Low	169 Acres	
					Urban Runoff/Storm Sewers Nonpoint Source			
2	R	Matadero Creek	20550040	Diazinon <i>This listing was made by USEPA.</i>		High	7.3 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Miller Creek	20620012	Diazinon <i>This listing was made by USEPA.</i>		High	9 Miles	2004
					Urban Runoff/Storm Sewers			
2	E	Mission Creek	20440010	Ammonia		Low	8.5 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Chlordane (sediment)		Low	8.5 Acres	
					Industrial Point Sources Combined Sewer Overflow			
				Chlorpyrifos (sediment)		Low	8.5 Acres	
					Industrial Point Sources Combined Sewer Overflow			

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				Chromium (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Copper (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Dieldrin (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Hydrogen Sulfide	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Lead (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Mercury (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Mirex (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				PAHs	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				PCBs (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Silver (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
				Zinc (sediment)	Industrial Point Sources Combined Sewer Overflow	Low	8.5 Acres	
2	R	Mt. Diablo Creek	20731040	Diazinon	Urban Runoff/Storm Sewers	High	13 Miles	2004

This listing was made by USEPA.

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2	R	Napa River	20650010	Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
					Agriculture			
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Low	65 Miles	
					Agriculture			
					Urban Runoff/Storm Sewers			
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	65 Miles	
					Agriculture			
					Construction/Land Development			
					Land Development			
					Urban Runoff/Storm Sewers			
2	R	Novato Creek	20620010	Diazinon <i>This listing was made by USEPA.</i>		High	17 Miles	2004
					Urban Runoff/Storm Sewers			
2	B	Oakland Inner Harbor (Fruitvale Site, part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>		Low	0.93 Acres	
					Nonpoint Source			
				Chlordane (sediment)		Low	0.93 Acres	
					Source Unknown			
				DDT <i>This listing was made by USEPA.</i>		Low	0.93 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	0.93 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Low	0.93 Acres	
					Nonpoint Source			

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				Dioxin Compounds		Low	0.93 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	0.93 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	0.93 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Mercury		High	0.93 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs		High	0.93 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	0.93 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				PCBs (sediment)		Low	0.93 Acres	
				Source Unknown				
				Selenium		Low	0.93 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				

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2	B	Oakland Inner Harbor (Pacific Dry-dock Yard 1 Site, part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>		Low	1.8 Acres	
					Nonpoint Source			
				Chlordane (sediment)		Low	1.8 Acres	
					Source Unknown			
				Chlorpyrifos (sediment)		Low	1.8 Acres	
					Source Unknown			
				Copper (sediment)		Low	1.8 Acres	
					Source Unknown			
				DDT <i>This listing was made by USEPA.</i>		Low	1.8 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	1.8 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Low	1.8 Acres	
					Nonpoint Source			
				Dieldrin (sediment)		Low	1.8 Acres	
					Source Unknown			
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	1.8 Acres		
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	1.8 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	1.8 Acres		
					Atmospheric Deposition			
				Lead (sediment)		Low	1.8 Acres	
					Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	1.8 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Industrial Point Sources			
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			
				Mercury (sediment)		Low	1.8 Acres	
					Source Unknown			
				Mirex (sediment)		Low	1.8 Acres	
					Source Unknown			
				PAHs (sediment)		Low	1.8 Acres	
					Source Unknown			
				PCBs		High	1.8 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	1.8 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
					Unknown Nonpoint Source			
				PCBs (sediment)		Low	1.8 Acres	
					Source Unknown			
				ppDDE (sediment)		Low	1.8 Acres	
					Source Unknown			
				Selenium		Low	1.8 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Tributyltin (sediment)		Low	1.8 Acres	
					Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Zinc (sediment)		Low	1.8 Acres	
					Source Unknown			
2	C	Pacific Ocean at Fitzgerald Marine Reserve	20221012	High Coliform Count		Low	0.46 Miles	
					Nonpoint Source			
2	C	Pacific Ocean at Pacifica State Beach	20221011	High Coliform Count		Low	0.87 Miles	
				<i>Linda Mar and San Pedro beaches are the areas affected.</i>				
					Urban Runoff/Storm Sewers			
					Nonpoint Source			
2	C	Pacific Ocean at Pillar Point Beach	20221012	High Coliform Count		Low	1.1 Miles	
					Nonpoint Source			
2	C	Pacific Ocean at Rockaway Beach	20221011	High Coliform Count		Low	0.29 Miles	
					Urban Runoff/Storm Sewers			
					Nonpoint Source			
2	C	Pacific Ocean at Venice Beach	20222011	High Coliform Count		Low	0.38 Miles	
					Nonpoint Source			
2	R	Permanente Creek	20550021	Diazinon		High	13 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Pescadero Creek	20240013	Sedimentation/Siltation		Medium	26 Miles	
				<i>Impairment to steelhead habitat.</i>				
					Nonpoint Source			
2	R	Petaluma River	20630020	Diazinon		Low	22 Miles	
				<i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>				
					Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	22 Miles	
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers			
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	22 Miles	
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers			
				Sedimentation/Siltation		Medium	22 Miles	
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers			
2	R	Petaluma River (tidal portion)	20630040	Diazinon <i>Data source: Abelli-Amen, Petaluma Tree Planters, 1999.</i>		Low	1.1 Miles	
					Urban Runoff/Storm Sewers			
				Nickel <i>Exceedance of California Toxic Rule dissolved criteria and National Toxic Rule total criteria; elevated water and sediment tissue levels.</i>		Low	1.1 Miles	
					Municipal Point Sources Urban Runoff/Storm Sewers Atmospheric Deposition			
				Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	1.1 Miles	
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers			
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>		Medium	1.1 Miles	
					Agriculture Construction/Land Development Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Pine Creek (Contra Costa Co)	20731040	Diazinon <i>This listing was made by USEPA.</i>		High	13 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Pinole Creek	20660020	Diazinon <i>This listing was made by USEPA.</i>		High	9.2 Miles	2004
Urban Runoff/Storm Sewers								
2	R	Pomponio Creek	20240020	High Coliform Count		Low	7.1 Miles	
Nonpoint Source								
2	B	Richardson Bay	20312010	Chlordane <i>This listing was made by USEPA.</i>		Low	2439 Acres	
Nonpoint Source								
				DDT <i>This listing was made by USEPA.</i>		Low	2439 Acres	
Nonpoint Source								
				Dieldrin <i>This listing was made by USEPA.</i>		Low	2439 Acres	
Unknown Nonpoint Source								
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	2439 Acres		
Atmospheric Deposition								
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	2439 Acres	
Ballast Water								
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	2439 Acres		
Atmospheric Deposition								
				High Coliform Count <i>Affected area, Waldo Point Harbor, is less than 10% of embayment; source has been positively identified as substandard sewage systems in some houseboat areas; extensive local control program in place with significant water quality improvements.</i>		Low	2439 Acres	
Urban Runoff/Storm Sewers								
Septage Disposal								
Boat Discharges/Vessel Wastes								

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	2439 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs		High	2439 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	2439 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
2	R	Rodeo Creek	20660022	Diazinon		High	8 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	E	Sacramento San Joaquin Delta	20710010	Chlordane		Low	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Low	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Low	41736 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Low	41736 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	41736 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Exotic Species		Medium	41736 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	41736 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Mercury		High	41736 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Nonpoint Source				
				PCBs		High	41736 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	41736 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	41736 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place. Another source is exotic species.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				
2	R	San Antonio Creek (Marin/Sonoma Co)	20630031	Diazinon		High	18 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	San Felipe Creek	20530041	Diazinon <i>This listing was made by USEPA.</i>		High	15 Miles	2004
Urban Runoff/Storm Sewers								
2	B	San Francisco Bay, Central	20312010	Chlordane <i>This listing was made by USEPA.</i>		Low	70992 Acres	
				Nonpoint Source				
				DDT <i>This listing was made by USEPA.</i>		Low	70992 Acres	
				Nonpoint Source				
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	70992 Acres	
				Nonpoint Source				
				Dieldrin <i>This listing was made by USEPA.</i>		Low	70992 Acres	
				Nonpoint Source				
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	70992 Acres		
				Atmospheric Deposition				
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>	Medium	70992 Acres		
				Ballast Water				
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	70992 Acres		
				Atmospheric Deposition				
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>	High	70992 Acres		2003
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		High	70992 Acres	2004
					Unknown Nonpoint Source			
				PCBs (dioxin-like) <i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>		Low	70992 Acres	
					Unknown Nonpoint Source			
				Selenium <i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>		Low	70992 Acres	
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
2	B	San Francisco Bay, Lower	20410010					
				Chlordane <i>This listing was made by USEPA.</i>		Low	79293 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Low	79293 Acres	
					Nonpoint Source			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	79293 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Low	79293 Acres	
					Nonpoint Source			
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>		Low	79293 Acres	
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	79293 Acres	
					Ballast Water			

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				Furan Compounds		Low	79293 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6, 7,8,-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
					Atmospheric Deposition			
				Mercury		High	79293 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment levels and elevated tissue levels.</i>				
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs		High	79293 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
					Unknown Nonpoint Source			
				PCBs (dioxin-like)		Low	79293 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
2	B	San Francisco Bay, South	20510000	Chlordane		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				DDT		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Diazinon		Low	21669 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Low	21669 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>		Low	21669 Acres	
				Atmospheric Deposition				
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	21669 Acres	
				Ballast Water				
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>		Low	21669 Acres	
				Atmospheric Deposition				
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources: water quality objective exceedances. Elevated sediment level and elevated tissue levels.</i>		High	21669 Acres	2003
				Industrial Point Sources				
				Municipal Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs <i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>		High	21669 Acres	2004
				Unknown Nonpoint Source				
				PCBs (dioxin-like) <i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>		Low	21669 Acres	
				Unknown Nonpoint Source				
				Selenium <i>A formal health advisory has been issued by OEHHA for benthic-feeding ducks in South San Francisco Bay. This health advisory clearly establishes that water contact recreation beneficial use (REC-1) is not fully supported and standards are not fully met.</i>		Low	21669 Acres	
				Agriculture				
				Domestic Use of Ground Water				
2	R	San Francisquito Creek	20550040	Diazinon <i>This listing was made by USEPA.</i>		High	12 Miles	2004
				Urban Runoff/Storm Sewers				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	12 Miles	
				Nonpoint Source				
2	R	San Gregorio Creek	20230014	High Coliform Count		Low	11 Miles	
					Nonpoint Source			
				Sedimentation/Siltation <i>Impairment to steelhead habitat.</i>		Medium	11 Miles	
				Nonpoint Source				
2	B	San Leandro Bay (part of SF Bay, Central)	20420040	Chlordane <i>This listing was made by USEPA.</i>		Low	588 Acres	
					Nonpoint Source			
				DDT <i>This listing was made by USEPA.</i>		Low	588 Acres	
					Nonpoint Source			
				DDT (sediment)		Low	588 Acres	
					Source Unknown			
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	588 Acres	
					Nonpoint Source			
				Dieldrin <i>This listing was made by USEPA.</i>		Low	588 Acres	
					Nonpoint Source			
				Dioxin Compounds		Low	588 Acres	
					Atmospheric Deposition			
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	588 Acres	
					Ballast Water			
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>		Low	588 Acres	
					Atmospheric Deposition			
				Lead (sediment)		Low	588 Acres	
					Source Unknown			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Mercury		High	588 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Industrial Point Sources			
					Municipal Point Sources			
					Resource Extraction			
					Atmospheric Deposition			
					Natural Sources			
					Nonpoint Source			
				Mercury (sediment)		Low	588 Acres	
					Source Unknown			
				PAHs (sediment)		Low	588 Acres	
					Source Unknown			
				Pesticides (sediment)		Low	588 Acres	
					Source Unknown			
				Selenium		Low	588 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Agriculture			
					Natural Sources			
					Exotic Species			
				Selenium (sediment)		Low	588 Acres	
					Source Unknown			
				Zinc (sediment)		Low	588 Acres	
					Source Unknown			
2	R	San Leandro Creek, Lower	20420012	Diazinon		High	9.3 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	San Lorenzo Creek	20420023	Diazinon		High	11 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	San Mateo Creek	20440032	Diazinon <i>This listing was made by USEPA.</i>		High	11 Miles	2004
Urban Runoff/Storm Sewers								
2	B	San Pablo Bay	20610010	Chlordane <i>This listing was made by USEPA.</i>		Low	68349 Acres	
Nonpoint Source								
				DDT <i>This listing was made by USEPA.</i>		Low	68349 Acres	
Nonpoint Source								
				Diazinon <i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>		Low	68349 Acres	
Nonpoint Source								
				Dieldrin <i>This listing was made by USEPA.</i>		Low	68349 Acres	
Nonpoint Source								
				Dioxin Compounds <i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>	Low	68349 Acres		
Atmospheric Deposition								
				Exotic Species <i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>		Medium	68349 Acres	
Ballast Water								
				Furan Compounds <i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>	Low	68349 Acres		
Atmospheric Deposition								
				Mercury <i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>		High	68349 Acres	2003
Municipal Point Sources								
Resource Extraction								
Atmospheric Deposition								
Natural Sources								
Nonpoint Source								

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				PCBs		High	68349 Acres	2004
				<i>This listing covers non dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown Nonpoint Source				
				PCBs (dioxin-like)		Low	68349 Acres	
				<i>The specific dioxin like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				
				Selenium		Low	68349 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
				Industrial Point Sources				
				Agriculture				
				Natural Sources				
				Exotic Species				
2	R	San Pablo Creek	20660014	Diazinon		High	9.9 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	L	San Pablo Reservoir	20660012	Mercury		Low	784 Acres	
				Atmospheric Deposition				
2	R	San Pedro Creek	20221011	High Coliform Count		Low	2.4 Miles	
				Urban Runoff/Storm Sewers				
				Nonpoint Source				
2	R	San Rafael Creek	20320012	Diazinon		High	3.6 Miles	2004
				<i>This listing was made by USEPA.</i>				
				Urban Runoff/Storm Sewers				
2	R	San Vicente Creek	20221012	High Coliform Count		Low	3.8 Miles	
				Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
2	R	Saratoga Creek	20550040	Diazinon <i>This listing was made by USEPA.</i>		High	18 Miles	2004
					Urban Runoff/Storm Sewers			
2	R	Sonoma Creek	20640050	Nutrients <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Medium	30 Miles	
				Pathogens <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Low	30 Miles	
				Sedimentation/Siltation <i>TMDL will be developed as part of ongoing watershed management effort. Additional monitoring and assessment needed.</i>	Agriculture Construction/Land Development Land Development Urban Runoff/Storm Sewers	Medium	30 Miles	
2	R	Stevens Creek	20550020	Diazinon <i>This listing was made by USEPA.</i>		High	20 Miles	2004
					Urban Runoff/Storm Sewers			
2	B	Suisun Bay	20710020	Chlordane <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	27498 Acres	
				DDT <i>This listing was made by USEPA.</i>	Nonpoint Source	Low	27498 Acres	

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Diazinon		Low	27498 Acres	
				<i>Diazinon levels cause water column toxicity. Two patterns: pulses through riverine systems linked to agricultural application in late winter and pulse from residential land use areas linked to homeowner pesticide use in late spring, early summer. Chlorpyrifos may also be the cause of toxicity; more data needed, however.</i>				
				Nonpoint Source				
				Dieldrin		Low	27498 Acres	
				<i>This listing was made by USEPA.</i>				
				Nonpoint Source				
				Dioxin Compounds		Low	27498 Acres	
				<i>The specific compounds are 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Exotic Species		Medium	27498 Acres	
				<i>Disrupt natural benthos; change pollutant availability in food chain; disrupt food availability to native species.</i>				
				Ballast Water				
				Furan Compounds		Low	27498 Acres	
				<i>The specific compounds are 2,3,7,8-TCDF, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF, 1,2,3,4,7,8-HxCDF, 1,2,3,6,7,8-HxCDF, 1,2,3,7,8,9-HxCDF, 2,3,4,6,7,8-HxCDF, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, and OCDF. This listing was made by USEPA.</i>				
				Atmospheric Deposition				
				Mercury		High	27498 Acres	2003
				<i>Current data indicate fish consumption and wildlife consumption impacted uses. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
				Industrial Point Sources				
				Resource Extraction				
				Atmospheric Deposition				
				Natural Sources				
				Nonpoint Source				
				PCBs		High	27498 Acres	2004
				<i>This listing covers non-dioxin-like PCBs. Interim health advisory for fish; uncertainty regarding water column concentration data.</i>				
				Unknown point source				
				PCBs (dioxin-like)		Low	27498 Acres	
				<i>The specific dioxin-like compounds are 3,4,4,5-TCB (81), 3,3,3,3-TCB (77), 3,3,4,4,5-PeCB (126), 3,3,4,4,4,4-HxCB (169), 2,3,3,4,4-PeCB (105), 2,3,4,4,5-PeCB (114), 2,3,4,4,5-PeCB (118), 2,3,4,4,5-PeCB (123), 2,3,3,4,4,5-HxCB (156), 2,3,3,4,4,5-HxCB (157), 2,3,4,4,5,5-HxCB (167), 2,3,3,4,4,5,5-HpCB (189). This listing was made by USEPA.</i>				
				Unknown Nonpoint Source				

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Selenium		Low	27498 Acres	
				<i>Affected use is one branch of the food chain; most sensitive indicator is hatchability in nesting diving birds, significant contributions from oil refineries (control program in place) and agriculture (carried downstream by rivers); exotic species may have made food chain more susceptible to accumulation of selenium; health consumption advisory in effect for scaup and scoter (diving ducks); low TMDL priority because Individual Control Strategy in place.</i>				
					Industrial Point Sources			
					Natural Sources			
					Exotic Species			
2	T	Suisun Marsh Wetlands	20723000	Metals		Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>				
					Agriculture			
					Urban Runoff/Storm Sewers			
					Flow Regulation/Modification			
				Nutrients		Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>				
					Agriculture			
					Urban Runoff/Storm Sewers			
					Flow Regulation/Modification			
				Organic Enrichment/Low Dissolved Oxygen		Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>				
					Agriculture			
					Urban Runoff/Storm Sewers			
					Flow Regulation/Modification			
				Salinity/TDS/Chlorides		Low	66339 Acres	
				<i>Additional monitoring and assessment needed.</i>				
					Agriculture			
					Urban Runoff/Storm Sewers			
					Flow Regulation/Modification			
2	E	Suisun Slough	20723000	Diazinon		High	1124 Acres	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	B	Tomaes Bay	20114033	Mercury		Medium	8545 Acres	
				<i>Current data indicate fish consumption and wildlife consumption impacted uses: health consumption advisory in effect for multiple fish species including striped bass and shark. Major source is historic: gold mining sediments and local mercury mining; most significant ongoing source is erosion and drainage from abandoned mines; moderate to low level inputs from point sources.</i>				
					Mine Tailings			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
				Nutrients		Medium	8545 Acres	
				<i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>				
					Agriculture			
				Pathogens		High	8545 Acres	2004
				<i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>				
					Intensive Animal Feeding Operations			
					Septage Disposal			
				Sedimentation/Siltation		Medium	8545 Acres	
				<i>TMDL will be developed as part of ongoing watershed management effort. Tributary streams, Lagunitas Creek and Walker Creek, must be managed first. Additional monitoring and assessment needed.</i>				
					Agriculture			
					Upstream Impoundment			
2	R	Walker Creek	20112013					
				Mercury		Medium	16 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Surface Mining			
					Mine Tailings			
				Nutrients		Medium	16 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture			
				Sedimentation/Siltation		Medium	16 Miles	
				<i>Tributary to Tomales Bay. TMDLs will be developed as part of evolving watershed management effort. Additional monitoring and assessment needed.</i>				
					Agriculture			
2	R	Walnut Creek	20731040					
				Diazinon		High	9 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			
2	R	Wildcat Creek	20660013					
				Diazinon		High	12 Miles	2004
				<i>This listing was made by USEPA.</i>				
					Urban Runoff/Storm Sewers			

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REGION	TYPE	NAME	CALWATER WATERSHED	POLLUTANT/STRESSOR*	POTENTIAL SOURCES	TMDL PRIORITY	ESTIMATED SIZE AFFECTED	PROPOSED TMDL COMPLETION
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ABBREVIATIONS

REGIONAL WATER QUALITY CONTROL BOARDS

- 1 North Coast
- 2 San Francisco Bay
- 3 Central Coast
- 4 Los Angeles
- 5 Central Valley
- 6 Lahontan
- 7 Colorado River Basin
- 8 Santa Ana
- 9 San Diego

WATER BODY TYPE

- B = Bays and Harbors
 C = Coastal Shorelines/Beaches
 E = Estuaries
 L = Lakes/Reservoirs
 R = Rivers and Streams
 S = Saline Lakes
 T = Wetlands, Tidal
 W = Wetlands, Freshwater

CALWATER WATERSHED

"Calwater Watershed" is the State Water Resources Control Board hydrological subunit area or an even smaller area delineation.

GROUP A PESTICIDES OR CHEM A

aldrin, dieldrin, chlordane, endrin, heptachlor, heptachlor epoxide,
 hexachlorocyclohexane (including lindane), endosulfan, and toxaphene